

Release notes for ENDF/B Development p-005_B_010
evaluation

ENDF
B-VII.dev

December 2, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT= 525, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT= 525, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      89 TO      94
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT= 525, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT= 525, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      89
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 525, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 525, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      96
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 525, MF= 3, MT=800 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 525, MF= 3, MT=800
SECTION 3/800 NOT IN DIRECTORY      RECORD NUMBER      101
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 525, MF= 6, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 525, MF= 6, MT= 2
SECTION 6/ 2 NOT IN DIRECTORY      RECORD NUMBER      129
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 525, MF= 6, MT=800 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 525, MF= 6, MT=800
SECTION 6/800 NOT IN DIRECTORY      RECORD NUMBER      343
```

- fudge-4.0 Errors:

1. There is a gap in the cross section
reaction label 0: H1 + B10 / Cross section: (Error # 0): Gap in xsect.

```
WARNING: Gap in cross section data from 3.e6 eV to 20. MeV
```

2. There is a gap in the cross section
reaction label 1: He4 + Be7 / Cross section: (Error # 0): Gap in xsect.

WARNING: Gap in cross section data from 3.e6 eV to 20. MeV

3. Calculated and tabulated Q values disagree.
reaction label 1: He4 + Be7 (Error # 1): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 635331.9767093658 eV vs 1.1465e6 eV!